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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/730,160	12/05/2000	Juha Tuomainen	460-009986-US(PAR)	6860
7590	05/19/2004			EXAMINER
Clarence A. Green Perman & Green, LLP 425 Post Road Fairfield, CT 06430				WILSON, ROBERT W
			ART UNIT	PAPER NUMBER
			2661	
				DATE MAILED: 05/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/730,160	TUOMAINEN ET AL.
Examiner	Art Unit	
Robert W Wilson	2661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 05 December 2000.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 1-20 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 05 December 2000 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 4&5
4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. ____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

1.0 The application of Tuomainen et. al. entitled "METHOD FOR REDUCING THE POWER CONSUMPTION OF A MOBILE STATION" with foreign priority based upon FINLAND 199992635 dated 12/08/1999 was examined. Claims 1-20 are pending.

Claim Rejections - 35 USC § 103

2.0 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3.0 **Claims 1-2 & 6** are rejected under 35 U.S.C. 103(a) as being unpatentable over Cashman (U.S. Patent No.: 6,449,494 B1).

4.0 Referring to **Claim 1**, Cashman (U.S. Patent No.: 6,449,494 B1) teaches: A method for reducing the power consumption of a mobile station (2) connected to a packet-switched network (Fig 2 and Abstract), in which packet-switched network information is transmitted in the form of data frames (Cellular Digital Packet Data (CDPD) system per Fig 1 or packet switched network), and in which the paging period is specified for a mobile for sending paging messages (UD1) essentially at intervals of said paging period to the mobile station and after which the reception of paging messages (UD1) the mobile which is in standby mode is set to idle mode in which idle mode part of the function s of the mobile station (2) are set in the power saving mode or switched off (Power savings is achieved by receiving CDPD messages when the handset or mobile is in sleep mode per Abstract or per Fig 2 or per col. 3 lines 51-col. 6 line 46) characterized in that the mode of operation of a mobile station in the idle mode is changed from the idle mode to the standby mode to receive information transmitted in the packet-switched network either at intervals during the paging period for maintaining synchronization to the packet switched network or at the end of the paging period for performing the synchronization to the packet-switched network (The mobile is switched from awake mode to sleep mode or standby mode during which it receives CDPD instead of AMPs per Fig 2 or per col. 3 line 51-col 14 line 26)

Cashman does not expressly call for: a packet switched network but teaches CDPD per Fig 2.

It would have been obvious to one of ordinary skill in the art at the time of the invention that the CDPD network sends packets.

In Addition:

Regarding **Claim 2**, characterized in that at least two different paging periods are defined, and that the selection of the paging period for the idle mode is performed in the mobile station (Awake and Sleep or two Paging periods which are determined by the mobile per Abstract or per col. 3 line 51-col. 14 line 26)

Regarding **Claim 6**, selection of the paging period is defined by the user of the mobile terminal (The mobile user can select T203 or paging period defined by user per col. 10 lines 34-50 or paging period)

Claim Rejections - 35 USC § 112

5.0 The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6.0 **Claims 1-20** are rejected relative to 112/2nd paragraph because the metes and bounds of the claims can not be assessed.

Referring to **Claims 1-20**, the applicant has inserted parenthesis with notations that refer to the figures. It is not clear whether the applicant desires these notations to be a part of the claim limitations or if they are for informational purposes consequently the metes and bounds of the claims cannot be assessed.

Referring to **Claims 1-20**, the claims have been translated literally from Finnish into English which has resulted in claim language in which the subject is at the end of the sentence or at other times the whole meaning was lost in translation consequently the metes and bounds of these claims cannot be assessed. The examiner will cite specific examples in order to help the applicant make changes to the claims.

Regarding **Claim 1**, What is meant by “switched network, or at the end of the paging period for performing the synchronization to the packet-switched network again.”

Regarding **Claim 5**, There is no antecedent basis “all previously calculated representation of received signal”

Regarding **Claim 5**, What is meant by “said representation of the received signal ...period is longer than the minimum paging period”? The meaning of the limitations associated with the two “if” steps was lost in the literal translation.

Regarding **Claims 7 & 14**, the meaning of these limitation of **Claims 7 & 14** was lost in the literal translation. What is meant by ‘whereby frequency stability of the first oscillator’ as claimed in Claim 7 and “ whereby the time for changing from idle mode to the standby mode is specified at least partly on the basis of the frequency stability of the first oscillator (O1)” ? Does the applicant mean that the time duration of the standby and idle mode are related to the accuracy of the clocks or oscillators which are utilized during idle and standby modes?

Regarding **Claim 8**, What is meant by “ a synch... paging message”? What is the antecedent basis for “and the steps c) to g are repeated and at least steps b) to h are repeated”?

Regarding **Claim 9-11**, the subject of the limitation occurs at the end of the claim limitation. What is meant by “synchronization period” in claims 9 & 10? What is meant by “resynchronization”?

Regarding **Claims 13 & 20**, where does the preamble end and the claim limitations begin. Do the Claim limitations being after “characterized” or do they begin after “comprises”?

Regarding **Claim 15**, the meaning of the following claim limitations was lost during translation “if the synchronization period is at least as long as the time.....set to the idle mode after synchronization” ? What is meant by the limitations associated with the “if” steps?

Regarding **Claim 16-18**, the subject of the limitation occurs at the end of the claim limitation. What is meant by “synchronization”?

Regarding **Claim 20**, this claim requires editing due to the literal translation . What is meant by means for establishing a data transfer connect to the packet switched network (4)....network again”?

Specification

6.0 The disclosure is objected to under 37 CFR 1.71, because it is a literal translation it is incomprehensible and requires rewriting without adding new matter. The whole specification has sentence fragments, incomplete sentences, and typing errors. In order to aid the applicant the examiner cites the some examples:

0,5777 ms” on Pg 2 line 25 ”should be “0.577 ms” is an example of typing error

The abbreviation “PTCCH” on Pg 3 lines 4 & 10 should be “PTACH” is an example of typing error

In the idle mode, the mobile station is not connected to the mobility management of the network and communication is not possible” Pg 6 lines 21-24 is an example of incomplete sentence.

Steps are referred to on Pgs 22 lines 17-19 and Pg 23 line 31 which are never defined in the text of the specification.

The whole specification needs to be rewritten in order to make it comprehensible.

Drawings

7.0 The drawing are objected to by the examiner because they also have numerous typing errors for example:

Referring to Figure 1 the MS is not numbered 2.

Referring to Fig 2 “SNDC header” should be “SHDCP header”

Abstract

8.0 The examiner objects to the abstract because the applicant has not provided a one page abstract which is written on a separate page.

Conclusion

9.0 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert W Wilson whose telephone number is 703/305-4102. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Olms can be reached on (703) 305-4703. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Robert W. Wilson
Robert W Wilson
Examiner
Art Unit 2661

RWW
April 29, 2004

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DEPARTMENT
PATENT EXAMINER